

## Bringing Lessons Learned Implementing EV Charging in NYC to Australia

### AITPM National Transport Conference Abstract Submission by Jen Abrahams

Accelerating zero-emission mobility plays a crucial role in fostering thriving, liveable and sustainable communities. Cities around the world, including New York, are leading the charge in reducing reliance on fossil fuel-powered transportation by developing infrastructure for electric vehicles (EVs) catering to a diverse range of transport, from two to eighteen-wheelers. The shift towards zero-emission mobility offers both opportunities and challenges in addressing the cost-of-living crisis and ensuring an equitable, sustainable urban environment.

This conference session seeks to provide valuable insights from New York's experience, where local and state governments have invested over \$1.2 billion dollars in zero-emission mobility initiatives. The focus will be on sharing key lessons learned, including relevant economic analyses, community engagement strategies, and planning processes that underpinned successful transportation and infrastructure projects. Participants will gain a deeper understanding of the importance of holistic business case development in efforts to reduce transportation-related emissions.

As cities and regions transition to electric mobility, understanding the infrastructure needs for charging stations, grid capacity, and power distribution becomes increasingly important. The presentation will discuss strategies to foster collaboration between utilities, transport planners and other relevant regulatory bodies. The session will use the development of high-powered fast charging hubs, on-street vehicle charging as well as shared micromobility charging infrastructure as case studies showcasing the breadth of infrastructure to support EV modes.

The insights shared in this session will be contextualized within the Australian landscape. The session will discuss how parallel stressors—such as managing multi-modal streets, energy needs, and regulatory hurdles—can be addressed through targeted policies, innovation in charging infrastructure, and community-based solutions.

This conference session will provide attendees with a comprehensive understanding of the complex challenges and opportunities associated with transitioning to zero-emission transportation. Participants will gain valuable insights into the economic, social, and technical considerations essential for fostering thriving communities in the context of decarbonization goals. By offering comparisons to the Australian context, this session will contribute to advancing the conversation on how to create a cleaner, more equitable future for transportation through knowledge sharing.